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L1	14179369	@ad<"20040123"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/09/09 21:14
L2	4806	709/206.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/09/09 21:15
L3	3314	1 and 2	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/09/09 21:15
L4	292	spam and 3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/09/09 21:15
L5	3391338	grade rank rating value	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/09/09 21:15
L6	3921	spam	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/09/09 21:15
L7	113	6 near2 5	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/09/09 21:15
L8	17	4 and 7	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/09/09 21:15



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Relevance scale ☐ ☐ ☐ ☒ ☐¹ Contributed articles: "In vivo" spam filtering: a challenge problem for KDD

Tom Fawcett

December 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(260.66 KB) Additional Information: full citation, abstract, references, citings

Spam, also known as Unsolicited Commercial Email (UCE), is the bane of email communication. Many data mining researchers have addressed the problem of detecting spam, generally by treating it as a static text classification problem. True *in vivo* spam filtering has characteristics that make it a rich and challenging domain for data mining. Indeed, real-world datasets with these characteristics are typically difficult to acquire and to share. This paper demonstrates some of these characteri ...

Keywords: challenge problems, class skew, concept drift, cost-sensitive learning, data streams, imbalanced data, spam, text classification

2 Invited workshop on conceptual information retrieval and clustering of documents:
Spam filters: bayes vs. chi-squared; letters vs. words

Cormac O'Brien, Carl Vogel

September 2003, **Proceedings of the 1st international symposium on Information and communication technologies ISICT '03**

Publisher: Trinity College Dublin

Full text available: pdf(93.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#)

We compare two statistical methods for identifying *spam* or junk electronic mail. Spam filters are classifiers which determine whether an email is junk or not. The proliferation of spam email has made electronic filtering vitally important. The magnitude of the problem is discussed. We examine the Naive Bayesian method in relation to the 'Chi by degrees of Freedom' approach, the latter used in the field of authorship identification. Both methods produce very promising results. However, the ...

³ Features: Spam, Spam, Spam, Spam, Spam, the FTC, and Spam



Eric Allman

September 2003 **Queue**, Volume 1 Issue 6

Publisher: ACM Press

Full text available: pdf(1.28 MB)

[html\(29.58 KB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A forum sponsored by the FTC highlights just how bad spam is and how its only going to get worse without some intervention.

The Federal Trade Commission (FTC) held a forum on spam in Washington, D.C., April 30 to May 2. Rather to my surprise, it was a really good, content-full event. The FTC folks had done their homework and had assembled panelists that ran the gamut from ardent anti-spammers all the way to hard-core spammers and everyone in between: lawyers, legitimate mar ...

4 Ending spam's free ride



Aaron Weiss

June 2003 **netWorker**, Volume 7 Issue 2

Publisher: ACM Press

Full text available: [pdf\(84.83 KB\)](#) [html\(22.89 KB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Spam is now a felony in the state of Virginia, as long as the unsolicited messages contain falsified information about the sender. With the harshest anti-spam law in the United States recently passed, Virginia---home to major ISPs such as America Online---is hoping to prove that legislation is finally providing the tools needed to cap the flow of bulk e-mail advertising. But to skeptics even the strongest anti-spam laws will be hobbled by long processing times and fuzzy jurisdiction. Rather, arg ...

5 Spam!



Lorrie Faith Cranor, Brian A. LaMacchia

August 1998 **Communications of the ACM**, Volume 41 Issue 8

Publisher: ACM Press

Full text available: [pdf\(209.22 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

6 A statistical approach to the spam problem

Gary Robinson

March 2003 **Linux Journal**, Volume 2003 Issue 107

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(24.38 KB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Can mathematics tell spam apart from legitimate mail? Find out which approaches work best in real-world tests.

7 SPAM on the menu: the practical use of remote messaging in community care



Keith Cheverst, Karen Clarke, Dan Fitton, Mark Rouncefield, Andy Crabtree, Terry Hemmings
June 2002 **ACM SIGCAPH Computers and the Physically Handicapped , Proceedings of the 2003 conference on Universal usability CUU '03**, Issue 73-74

Publisher: ACM Press

Full text available: [pdf\(541.44 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents some early design work of the 'Digital Care' project, developing technologies to assist care in the community for user groups with different support needs. Our focus is on developing a SMS Public Asynchronous Messenger (SPAM) system for SMS messaging to a situated display in hostels for ex-psychiatric patients run by a charitable Trust. Such settings pose both methodological and design challenges. We face the methodological challenge to uncover requirements in such a sensitiv ...


Keywords: SMS messaging, community care, cultural probes, ethnography, requirements, user workshops

8 An experimental comparison of naive Bayesian and keyword-based anti-spam filtering with personal e-mail messages

Ion Androutsopoulos, John Koutsias, Konstantinos V. Chandrinos, Constantine D. Spyropoulos

July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '00**

Publisher: ACM Press

Full text available:  pdf(811.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The growing problem of unsolicited bulk e-mail, also known as "spam", has generated a need for reliable anti-spam e-mail filters. Filters of this type have so far been based mostly on manually constructed keyword patterns. An alternative approach has recently been proposed, whereby a Naive Bayesian classifier is trained automatically to detect spam messages. We test this approach on a large collection of personal e-mail messages, which we make publicly available in "encrypte ...

Keywords: evaluation (general), filtering&slash;routing, machine learning and IR, test collections, text categorization

9 Accepted Panels: Spam, spam, spam, spam: how can we stop it

Jenny Preece, Jonathan Lazar, Elizabeth Churchill, Hans de Graaff, Batya Friedman, Joseph Konstan

April 2003 **CHI '03 extended abstracts on Human factors in computing systems CHI '03**

Publisher: ACM Press

Full text available:  pdf(181.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

How do we keep our channels of electronic communication, both individual and group, open, while keeping out inappropriate and unrelated materials, such as spam? Does someone other than the intended recipient have the right to control what electronic mail users see? Might this lead to censorship? If others DO have the right to control what e-mail users see, how should this filtering or censorship occur? Are users aware of this filtering? If others are NOT controlling what users receive, what can ...

10 Inside risks: Spam wars

Lauren Weinstein

August 2003 **Communications of the ACM**, Volume 46 Issue 8

Publisher: ACM Press

Full text available:  pdf(44.64 KB)  html(7.58 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)

11 Getting Rid of Spam: Blackmail

Brandon M. Browning

March 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  html(13.11 KB) Additional Information: [full citation](#), [references](#), [index terms](#)


12 SPAM: a microcode based tool for tracing operating system events



 Stephen W. Melvin, Yale N. Patt

December 1987 **Proceedings of the 20th annual workshop on Microprogramming
MICRO 20**

Publisher: ACM Press

Full text available:  [pdf\(405.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have developed a tool called SPAM (for System Performance Analysis using Microcode), based on microcode modifications to a VAX 8600, that traces operating system events as a side-effect to normal execution. This trace of interrupts, exceptions, system calls and context switches can then be processed to analyze operating system behavior for the purpose of debugging, tuning or development. SPAM allows measurements to be made on a fully operating UNIX system with little perturbation (typical ...

13 From the editor: spam, not spam, is the stuff of memories



Richard Vernon

March 2002 **Linux Journal**, Volume 2002 Issue 95

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(3.57 KB\)](#) Additional Information: [full citation](#), [index terms](#)

14 Stop in the name of spam




 November 1998 **Communications of the ACM**, Volume 41 Issue 11

Publisher: ACM Press

Full text available:  [pdf\(223.63 KB\)](#) Additional Information: [full citation](#), [index terms](#)

15 The last word: Spam I am?!



 Aaron Weiss

June 2003 **netWorker**, Volume 7 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(39.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)
 [html\(8.78 KB\)](#)

Several months ago I sent out an e-mail to a couple of thousand people and nearly lost my broadband access as a result. I maintain a personal Web site of a satirical nature which has attracted a good deal of traffic and consistently positive feedback over the years. Eventually I tried to market a modest product based on the Web site. Far from a major retail launch, this was more akin to custom printing a bunch of t-shirts for friends and family. Because the nature of the site did not invite a hi ...

16 CoNLL-2000 Short Papers: Combining text and heuristics for cost-sensitive spam filtering



José M. Gómez Hidalgo, Manuel Maña López, Enrique Puertas Sanz

September 2000 **Proceedings of the 2nd workshop on Learning language in logic and the 4th conference on Computational natural language learning - Volume 7**

Publisher: Association for Computational Linguistics

Full text available:  [pdf\(337.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Spam filtering is a text categorization task that shows especial features that make it

interesting and difficult. First, the task has been performed traditionally using heuristics from the domain. Second, a cost model is required to avoid misclassification of legitimate messages. We present a comparative evaluation of several machine learning algorithms applied to spam filtering, considering the text of the messages and a set of heuristics for the task. Cost-oriented biasing and evaluation is pe ...

17 Inside risks: spam, spam, spam!



Peter G. Neumann, Lauren Weinstein

June 1997 **Communications of the ACM**, Volume 40 Issue 6

Publisher: ACM Press

Full text available: [pdf\(230.32 KB\)](#) Additional Information: [full citation](#), [index terms](#)

18 Preventing Spams and Relays



John Wong

December 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(15.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The smtpd package is a useful mail demon for stopping spam, thereby saving money and resources

19 Spam the spammer



Gilbert 'Bo' Held

March 1998 **International Journal of Network Management**, Volume 8 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(11.89 KB\)](#) Additional Information: [full citation](#), [index terms](#)

20 The effectiveness of task-level parallelism for high-level vision



W. Harvey, D. Kalp, M. Tambe, D. McKeown, A. Newell

February 1990 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGPLAN symposium on Principles & practice of parallel programming PPOPP '90**, Volume 25 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.78 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Large production systems (rule-based systems) continue to suffer from extremely slow execution which limits their utility in practical applications as well as in research settings. Most investigations in speeding up these systems have focused on match (or knowledge-search) parallelism. Although good speed-ups have been achieved in this process, these investigations have revealed the limitations on the total speed-up available from this source. This limited speed-up is insufficient to allevi ...

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